

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product : TONALIDE/GANOLIDE
Chemical identification : 1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one
CAS : 1506-02-1
21145-77-7
EC Number : 216-133-4
Registration number (REACH) : Not applicable according to article 2 Regulation 1907/2006
Index No. :

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Relevant identified uses of the substance or mixture: Industrial uses. Formulation [mixing] of preparations..
Uses advised against: Other uses than those recommended.

1.3 Details of the supplier of the safety data sheet

Lluch Essence, SLU
C/ Lo Gaiter de Llobregat 160, 08820 El Prat de Llobregat, Barcelona (Spain - Spain)
Phone Number: +34 93 379 38 49; Fax: +34 93 478 27 54.

1.4 Emergency telephone number

Tel. +34 933 793 849 (8:00 - 17:00 GMT/UTC +1)
Tel. +1 760 476 3961 Access Code: 335550 (available 24/7 - Verisk 3E)
More emergency telephones by region:
<http://old.lluche.com/Emergencytelephones.pdf>

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008

Acute toxicity (oral), Hazard Category 4; H302
Short-term (acute) aquatic hazard, category acute 1; H400
Long-term (chronic) aquatic hazard, category chronic 1; H410.

2.2 Label elements

EC Number: 216-133-4
1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one



Signal word: Warning

Hazard Statements:

H302: Harmful if swallowed.
H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

P264: Wash hands thoroughly after handling.
P273: Avoid release to the environment.
P301+P312: IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
P330: Rinse mouth.
P391: Collect spillage.
P501: Dispose of contents/container to an approved waste disposal plant.

2.3 Other hazards

Results of PBT and vPvB assessment

The product does not contain substances identified as PBT and/or vPvB in a concentration equal to or greater than 0,1 % (w/w).

Environmental endocrine disrupting properties.

The product does not contain substances identified as having environmental endocrine disrupting properties in a concentration equal to or greater than 0,1 % (w/w).

Human health endocrine disrupting properties.

The product does not contain substances identified as having human health endocrine disrupting properties in a concentration equal to or greater than 0,1 % (w/w).

SECTION 3: Composition/information on ingredients

3.1 Substances

Concentration range of the constituent (% weight/weight)	EC number / Registration number	CAS	Chemical name	Hazard Class and Category Code; Hazard statement codes
≥50% and ≤100	216-133-4 01-2119539433-40	1506-02-1 21145-77-7	1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	Acute Tox. 4;H302- Aquatic Acute 1;H400- Aquatic Chronic 1;H410

The chemical identity of any impurity, stabilising additive, or individual constituent other than the main constituent:

Concentration (%)	CAS	EC Number	Chemical name	Hazard Class and Category Code; Hazard statement codes
<100,00	21145-77-7	244-240-6	1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	Acute Tox. 4;H302- Aquatic Acute 1;H400- Aquatic Chronic 1;H410 ^[1]
<1,00	68140-48-7	268-799-0	1-[2,3-Dihydro-1,1,2,6-tetramethyl-3-(1-methylethyl)-1H-inden-5-yl]ethan-1-one	Acute Tox. 4;H302- Aquatic Acute 1;H400- Aquatic Chronic 1;H410 ^[2]

[1] Constituent.

[2] Impurity.

SECTION 4: First aid measures

4.1 Description of first aid measures

Consumption: If swallowed, rinse mouth with water.
 Seek medical advice immediately and show this container or label.
 Keep the person at rest. Do NOT induce vomiting.

Eye contact: Contact lenses should be removed. Hold eyelids open and flush with copious amounts of clean, fresh water and seek medical advice.

Inhalation: Remove person to fresh air and keep at rest.

Skin contact: Remove contaminated clothing. Wash skin with mild soap and water, rinse abundantly. If symptoms persist, obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed:

Read label before use. No additional information available.

4.3 Indication of any immediate medical attention and special treatment needed

Not available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Carbon dioxide, dry chemical powder or appropriate foam.
 For safety reasons do not use full water jet.

5.2 Special hazards arising from the substance or mixture

Not applicable.

5.3 Advice for firefighters

In case of fire in the surrounding area, follow the recommendations below:

- Avoid inhalation of fumes or vapours. Use appropriate respiratory protection.
- Prevent run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate gloves to prevent skin exposure.

Avoid dust formation and prevent scattering by moistening with water.
 Maintain adequate ventilation in the working area after spilling.

6.2 Environmental precautions

Avoid contaminating the environment via the sewers or water sources.

6.3 Methods and material for containment and cleaning up

Cover with an inert, inorganic, non-combustible absorbent material (e.g. dry-lime, sand, soda ash).
 Ventilate area and wash spill site after material pickup is complete.
 Dispose of in accordance with current laws and regulations.

6.4 Reference to other sections

See also sections 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep away from food, drink and animal feedingstuffs. Do not smoke.
 Avoid contact with skin and eyes.
 Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Keep the product in its original container well sealed, in a dry and ventilated area, away from potential sources of ignition and protected from light. Store in accordance with local/national regulations and follow the warnings on the label.
 Keep away from incompatible substances (see section 10).

7.3 Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Declaration of substances is not required.

8.2 Exposure controls

Personal protection equipment:	Appropriate personal protective equipment shall be worn in accordance with Regulation (EU) 2016/425.
Engineering Controls-Ventilation:	The areas where the product is handled and stored should be adequately ventilated.
Respiratory Protection:	Use personal breathing apparatus whenever deemed necessary.
Skin Protection:	Avoid contact with skin. Compatible chemical-resistant gloves are recommended. Rinse and remove gloves immediately after use. Wash hands with soap and water thoroughly after handling.
Eye/Face protection:	Chemical safety goggles are recommended. Wash contaminated goggles before reuse (EN 166).
Predicted No Effect Concentration (PNEC):	Intermittent releases: 6.1 µg/L Freshwater: 2.2 µg/L Marine water: 0.22 µg/L Sewage treatment plant (STP): 2.2 mg/L Sediment (freshwater): 1.72 mg/kg sediment dw Sediment (marine water): 0.345 mg/kg sediment dw Air: no hazard identified Soil: 0.0099 mg/kg soil dw Secondary poisoning: 1.1 mg/kg food
Derived no-effect level (DNEL):	Worker. Inhalation. Systemic effects. Long term: 0.175 mg/m ³ Worker. Inhalation. Systemic effects. Acute: 0.525 mg/m ³ Worker. Inhalation. Local effects. Long term: no hazard identified Worker. Inhalation. Local effects. Acute: no hazard identified Worker. Dermal. Systemic effects. Long term: 0.61 mg/kg bw/day Worker. Dermal. Systemic effects. Acute: no hazard identified Worker. Dermal. Local effects. Long term: no hazard identified Worker. Dermal. Local effects. Acute: no hazard identified Worker. Eyes. Local effects. Acute: no hazard identified General population. Inhalation. Systemic effects. Long term: 0.0435 mg/m ³ General population. Inhalation. Systemic effects. Acute: 0.131 mg/m ³ General population. Inhalation. Local effects. Long term: no hazard identified General population. Inhalation. Local effects. Acute: no hazard identified

General population. Dermal. Systemic effects. Long term: 0.305 mg/kg bw/day
 General population. Dermal. Systemic effects. Acute: no hazard identified
 General population. Dermal. Local effects. Long term: no hazard identified
 General population. Dermal. Local effects. Acute: no hazard identified
 General population. Oral. Systemic effects. Long term: 0.0125 mg/kg bw/day
 General population. Oral. Systemic effects. Acute: 1.2 mg/kg bw/day
 General population. Eyes. Local effects. Acute: no hazard identified

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	SOLID
Colour:	WHITE - BEIGE
Odour:	WARM
Odour threshold:	Not determined
pH value:	Not applicable. Low solubility product.
Evaporation rate:	Not determined
Melting point:	52.0000 °C
Boiling point:	180 °C
Flash point:	149.9 °C
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Vapour pressure:	Not determined
Vapour density:	Not determined
Density:	Not determined
Water solubility:	Not determined
Partition coefficient: n-octanol/water:	Not determined
Viscosity:	Not determined
Kinematic viscosity:	Not determined
Oxidising properties:	Not available.
Explosive properties:	Not available.
Lower explosive limit:	Not determined
Upper explosive limit:	Not determined

9.2 Other information

Additional information:	Not applicable.
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SECTION 10: Stability and reactivity

10.1 Reactivity

Not available.

10.2 Chemical stability

Stable under normal operating conditions.

10.3 Possibility of hazardous reactions

Hazardous Polymerization: It does not undergo any dangerous reactions under normal conditions.

10.4 Conditions to avoid

Handle in accordance with good industrial hygiene and safety practice.

10.5 Incompatible materials

Oxidizing mineral acids, strong reducing agents, strong oxidizing agents.

10.6 Hazardous decomposition products

Carbon monoxide and other unidentified organic compounds may be formed upon combustion.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity (LD50):	Not classified for acute toxicity based on available data.
Acute dermal toxicity (LD50):	Not classified for acute toxicity based on available data.

Acute Inhalation toxicity (LC50 Gas):
Acute Inhalation toxicity (LC50 Dusts and Mists):
Acute Inhalation toxicity (LC50 Vapours):
Skin Irritation:
Serious eye damage/irritation:

Not classified for acute toxicity based on available data.
Not classified for acute toxicity based on available data.
Not classified for acute toxicity based on available data.
Non irritating
Not considered an ocular irritant

See also sections 2 and 3.

11.2 Information on other hazards:

Endocrine disrupting properties.:

The product does not contain substances identified as having human health endocrine disrupting properties in a concentration equal to or greater than 0,1 % (w/w).

SECTION 12: Ecological information

12.1 Toxicity

Acute aquatic toxicity: Not determined

Chronic aquatic toxicity: Not determined

See also sections 2 and 3.

12.2 Biodegradation:

Non biodegradable (2%, 28 days)

21%, 21 days

12.3 Bioaccumulative potential:

Not determined

12.4 Mobility in soil:

Not available.

12.5 Results of PBT and vPvB assessment:

The product does not contain substances identified as PBT and/or vPvB in a concentration equal to or greater than 0,1 % (w/w).

12.6 Endocrine disrupting properties.:

The product does not contain substances identified as having environmental endocrine disrupting properties in a concentration equal to or greater than 0,1 % (w/w).

12.7 Other adverse effects:

Not available.

Do not allow the material to enter streams, sewers or other waterways.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal conditions: Dispose of in accordance with all state and local environmental regulations. This material and its container must be disposed of in a safe way.

SECTION 14: Transport information

International Carriage of Dangerous Goods by Road (ADR)

14.1 UN No.: UN3077

14.2 Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains 1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one)

14.3 Class: 9

14.4 Packing Group: III

14.6 Special precautions for user:

Tunnel restriction code: (-)

Label:



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Sea Transport (IMDG)

14.1 UN No.:	UN3077
14.2 Proper Shipping Name:	Environmentally hazardous substance, solid, n.o.s. (Contains 1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one)
14.3 Class:	9
14.4 Packing Group:	III
14.5 Marine Pollutant:	Yes
14.6 Special precautions for user:	
IMDG-Code segregation group:	-
EmS:	F-A,S-F
Label:	 

Air Transport (ICAO/IATA)

14.1 UN No.:	UN3077
14.2 Proper Shipping Name:	Environmentally hazardous substance, solid, n.o.s. (1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one)
14.3 Class:	9
14.4 Packing Group:	III
14.6 Special precautions for user:	
Passenger aircraft:	ACCEPTED
Cargo aircraft:	ACCEPTED

SECTION 15: Regulatory information
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Substances of very high concern:

The product does not contain substances included in the Substances of Very High Concern list (> 0,1 % w/w).

15.2 Chemical safety assessment

Not available.

SECTION 16: Other information

This material should only be used for industrial purposes.

Full text of classifications (in accordance with Regulation (EC) No 1272/2008):

Acute Tox. 4; H302	Acute toxicity (oral), Hazard Category 4
Aquatic Acute 1; H400	Short-term (acute) aquatic hazard, category acute 1
Aquatic Chronic 1; H410	Long-term (chronic) aquatic hazard, category chronic 1

Key literature references and sources for data:

- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
- Occupational Exposure Limits by the INSHT (Spanish National Institute of Safety and Hygiene at Work).

Replaces version:20 (29/03/2023)

Reason for Change: Adjustment to Regulation (EU) 2020/878.

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